

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE111418\  
 Data File : FE029234.D  
 Signal(s) : FID1B.CH  
 Acq On : 14 Nov 2018 18:01  
 Sample : J5838-24  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\C44-FE102318.M  
 Title :

Signal : FID1B.CH

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.486       | 2.465        | 2.521      | BH       | 190            | 2671         | 0.06%          | 0.002%        |
| 2         | 2.538       | 2.521        | 2.549      | HH       | 129            | 1328         | 0.03%          | 0.001%        |
| 3         | 2.621       | 2.549        | 2.632      | HH       | 261            | 6470         | 0.15%          | 0.005%        |
| 4         | 2.643       | 2.632        | 2.655      | HH       | 193            | 2068         | 0.05%          | 0.002%        |
| 5         | 2.680       | 2.655        | 2.703      | HH       | 415            | 7960         | 0.19%          | 0.006%        |
| 6         | 2.721       | 2.703        | 2.738      | HH       | 555            | 8692         | 0.20%          | 0.006%        |
| 7         | 2.751       | 2.738        | 2.781      | HH       | 1235           | 13917        | 0.33%          | 0.010%        |
| 8         | 2.810       | 2.781        | 2.818      | HH       | 364            | 6490         | 0.15%          | 0.005%        |
| 9         | 2.830       | 2.818        | 2.918      | HH       | 405            | 18733        | 0.44%          | 0.014%        |
| 10        | 2.928       | 2.918        | 2.936      | HH       | 364            | 2990         | 0.07%          | 0.002%        |
| 11        | 2.954       | 2.936        | 2.968      | HH       | 468            | 6716         | 0.16%          | 0.005%        |
| 12        | 2.982       | 2.968        | 2.990      | HH       | 399            | 4549         | 0.11%          | 0.003%        |
| 13        | 3.001       | 2.990        | 3.018      | HH       | 459            | 6220         | 0.15%          | 0.005%        |
| 14        | 3.024       | 3.018        | 3.069      | HH       | 426            | 10000        | 0.24%          | 0.007%        |
| 15        | 3.078       | 3.069        | 3.091      | HH       | 381            | 3961         | 0.09%          | 0.003%        |
| 16        | 3.104       | 3.091        | 3.138      | HH       | 401            | 8864         | 0.21%          | 0.007%        |
| 17        | 3.153       | 3.138        | 3.191      | HH       | 328            | 6440         | 0.15%          | 0.005%        |
| 18        | 3.206       | 3.191        | 3.238      | HH       | 295            | 5947         | 0.14%          | 0.004%        |
| 19        | 3.251       | 3.238        | 3.296      | HH       | 273            | 7024         | 0.17%          | 0.005%        |
| 20        | 3.308       | 3.296        | 3.383      | HH       | 235            | 7666         | 0.18%          | 0.006%        |
| 21        | 3.455       | 3.383        | 3.625      | HH       | 493            | 22536        | 0.53%          | 0.017%        |
| 22        | 3.637       | 3.625        | 3.675      | PH       | 61             | 19           | 0.00%          | 0.000%        |
| 23        | 3.686       | 3.675        | 3.748      | PH       | 32             | -2583        | -0.06%         | -0.002%       |
| 24        | 3.766       | 3.748        | 3.778      | PH       | -41            | -1633        | -0.04%         | -0.001%       |
| 25        | 3.799       | 3.778        | 3.938      | PH       | 231            | -5289        | -0.12%         | -0.004%       |
| 26        | 3.967       | 3.938        | 4.005      | PH       | -0             | -5522        | -0.13%         | -0.004%       |
| 27        | 4.045       | 4.005        | 4.061      | PH       | -78            | -5176        | -0.12%         | -0.004%       |
| 28        | 4.069       | 4.061        | 4.078      | PH       | -62            | -1277        | -0.03%         | -0.001%       |
| 29        | 4.087       | 4.078        | 4.121      | PH       | -18            | -3024        | -0.07%         | -0.002%       |
| 30        | 4.148       | 4.121        | 4.153      | PH       | -55            | -2166        | -0.05%         | -0.002%       |
| 31        | 4.172       | 4.153        | 4.321      | PH       | 33547          | 602813       | 14.19%         | 0.450%        |
| 32        | 4.333       | 4.321        | 4.364      | HH       | 863            | 19176        | 0.45%          | 0.014%        |
| 33        | 4.379       | 4.364        | 4.502      | HH       | 822            | 40619        | 0.96%          | 0.030%        |
| 34        | 4.519       | 4.502        | 4.547      | HH       | 576            | 11398        | 0.27%          | 0.009%        |
| 35        | 4.563       | 4.547        | 4.655      | HH       | 605            | 20071        | 0.47%          | 0.015%        |
| 36        | 4.661       | 4.655        | 4.697      | HH       | 300            | 4244         | 0.10%          | 0.003%        |

|    |       |       |       |    |            |       |        |         |  |
|----|-------|-------|-------|----|------------|-------|--------|---------|--|
|    |       |       |       |    | rteres.txt |       |        |         |  |
| 37 | 4.717 | 4.697 | 4.856 | HH | 3953       | 52186 | 1.23%  | 0.039%  |  |
| 38 | 4.865 | 4.856 | 4.915 | PH | 18         | -1280 | -0.03% | -0.001% |  |
| 39 | 4.934 | 4.915 | 5.009 | PH | 48         | -2008 | -0.05% | -0.002% |  |
| 40 | 5.021 | 5.009 | 5.034 | PH | 70         | -708  | -0.02% | -0.001% |  |
| 41 | 5.045 | 5.034 | 5.056 | PH | -20        | -1324 | -0.03% | -0.001% |  |
| 42 | 5.098 | 5.056 | 5.116 | PH | 66         | -1651 | -0.04% | -0.001% |  |
| 43 | 5.123 | 5.116 | 5.130 | PH | -36        | -707  | -0.02% | -0.001% |  |
| 44 | 5.162 | 5.130 | 5.201 | PH | 265        | 61    | 0.00%  | 0.000%  |  |
| 45 | 5.207 | 5.201 | 5.224 | PH | -64        | -1184 | -0.03% | -0.001% |  |
| 46 | 5.235 | 5.224 | 5.255 | PH | -29        | -2230 | -0.05% | -0.002% |  |
| 47 | 5.263 | 5.255 | 5.290 | PH | -99        | -2704 | -0.06% | -0.002% |  |
| 48 | 5.305 | 5.290 | 5.315 | PH | -73        | -1871 | -0.04% | -0.001% |  |
| 49 | 5.352 | 5.315 | 5.422 | PH | -52        | -5614 | -0.13% | -0.004% |  |
| 50 | 5.456 | 5.422 | 5.476 | PH | 62         | -714  | -0.02% | -0.001% |  |
| 51 | 5.485 | 5.476 | 5.533 | PH | 17         | -2232 | -0.05% | -0.002% |  |
| 52 | 5.561 | 5.533 | 5.579 | PH | 6          | -2728 | -0.06% | -0.002% |  |
| 53 | 5.600 | 5.579 | 5.680 | PH | 163        | -2091 | -0.05% | -0.002% |  |
| 54 | 5.691 | 5.680 | 5.708 | PH | -17        | -1140 | -0.03% | -0.001% |  |
| 55 | 5.721 | 5.708 | 5.751 | PH | 41         | -998  | -0.02% | -0.001% |  |
| 56 | 5.765 | 5.751 | 5.824 | PH | 86         | -1153 | -0.03% | -0.001% |  |
| 57 | 5.836 | 5.824 | 5.842 | PH | 8          | -528  | -0.01% | -0.000% |  |
| 58 | 5.849 | 5.842 | 5.861 | PH | 5          | -431  | -0.01% | -0.000% |  |
| 59 | 5.880 | 5.861 | 5.891 | PH | 68         | -14   | -0.00% | -0.000% |  |
| 60 | 5.899 | 5.891 | 5.924 | PH | 17         | -1013 | -0.02% | -0.001% |  |
| 61 | 5.950 | 5.924 | 5.963 | PH | 84         | 51    | 0.00%  | 0.000%  |  |
| 62 | 5.974 | 5.963 | 5.993 | PH | 89         | 245   | 0.01%  | 0.000%  |  |
| 63 | 6.008 | 5.993 | 6.045 | PH | -16        | -1690 | -0.04% | -0.001% |  |
| 64 | 6.063 | 6.045 | 6.084 | PH | 119        | 280   | 0.01%  | 0.000%  |  |
| 65 | 6.099 | 6.084 | 6.118 | PH | 84         | 748   | 0.02%  | 0.001%  |  |
| 66 | 6.154 | 6.118 | 6.168 | PH | 390        | 4479  | 0.11%  | 0.003%  |  |
| 67 | 6.197 | 6.168 | 6.223 | HH | 313        | 6998  | 0.16%  | 0.005%  |  |
| 68 | 6.244 | 6.223 | 6.267 | HH | 278        | 5897  | 0.14%  | 0.004%  |  |
| 69 | 6.296 | 6.267 | 6.414 | HH | 2844       | 37130 | 0.87%  | 0.028%  |  |
| 70 | 6.425 | 6.414 | 6.439 | HH | 96         | 990   | 0.02%  | 0.001%  |  |
| 71 | 6.476 | 6.439 | 6.496 | PH | 284        | 5425  | 0.13%  | 0.004%  |  |
| 72 | 6.520 | 6.496 | 6.568 | HH | 238        | 4607  | 0.11%  | 0.003%  |  |
| 73 | 6.593 | 6.568 | 6.659 | PH | 2858       | 41423 | 0.98%  | 0.031%  |  |
| 74 | 6.668 | 6.659 | 6.710 | HH | 128        | 2917  | 0.07%  | 0.002%  |  |
| 75 | 6.721 | 6.710 | 6.729 | HH | 139        | 1015  | 0.02%  | 0.001%  |  |
| 76 | 6.741 | 6.729 | 6.751 | PH | 186        | 1269  | 0.03%  | 0.001%  |  |
| 77 | 6.787 | 6.751 | 6.850 | HH | 534        | 20731 | 0.49%  | 0.015%  |  |
| 78 | 6.863 | 6.850 | 6.875 | HH | 336        | 4689  | 0.11%  | 0.004%  |  |
| 79 | 6.885 | 6.875 | 6.971 | HH | 365        | 13269 | 0.31%  | 0.010%  |  |
| 80 | 7.024 | 6.971 | 7.111 | HH | 292        | 16794 | 0.40%  | 0.013%  |  |
| 81 | 7.119 | 7.111 | 7.131 | HH | 264        | 2605  | 0.06%  | 0.002%  |  |
| 82 | 7.156 | 7.131 | 7.168 | HH | 332        | 5856  | 0.14%  | 0.004%  |  |
| 83 | 7.188 | 7.168 | 7.197 | HH | 343        | 4743  | 0.11%  | 0.004%  |  |
| 84 | 7.218 | 7.197 | 7.235 | HH | 742        | 10560 | 0.25%  | 0.008%  |  |
| 85 | 7.250 | 7.235 | 7.265 | HH | 379        | 6228  | 0.15%  | 0.005%  |  |
| 86 | 7.291 | 7.265 | 7.321 | HH | 547        | 12336 | 0.29%  | 0.009%  |  |
| 87 | 7.350 | 7.321 | 7.381 | HH | 341        | 9836  | 0.23%  | 0.007%  |  |
| 88 | 7.389 | 7.381 | 7.395 | HH | 407        | 2889  | 0.07%  | 0.002%  |  |
| 89 | 7.409 | 7.395 | 7.497 | HH | 516        | 21832 | 0.51%  | 0.016%  |  |

|     |        |        |        |    |            |        |        |        |
|-----|--------|--------|--------|----|------------|--------|--------|--------|
|     |        |        |        |    | rteres.txt |        |        |        |
| 90  | 7.514  | 7.497  | 7.605  | HH | 492        | 21665  | 0.51%  | 0.016% |
| 91  | 7.694  | 7.605  | 7.722  | HH | 503        | 22364  | 0.53%  | 0.017% |
| 92  | 7.738  | 7.722  | 7.749  | HH | 365        | 5328   | 0.13%  | 0.004% |
| 93  | 7.773  | 7.749  | 7.781  | HH | 434        | 6923   | 0.16%  | 0.005% |
| 94  | 7.801  | 7.781  | 7.835  | HH | 878        | 18319  | 0.43%  | 0.014% |
| 95  | 7.921  | 7.835  | 7.955  | HH | 1373       | 53577  | 1.26%  | 0.040% |
| 96  | 7.970  | 7.955  | 8.016  | HH | 1136       | 26286  | 0.62%  | 0.020% |
| 97  | 8.024  | 8.016  | 8.061  | HH | 513        | 11858  | 0.28%  | 0.009% |
| 98  | 8.093  | 8.061  | 8.107  | HH | 502        | 12484  | 0.29%  | 0.009% |
| 99  | 8.134  | 8.107  | 8.151  | HH | 785        | 15735  | 0.37%  | 0.012% |
| 100 | 8.157  | 8.151  | 8.182  | HH | 692        | 9799   | 0.23%  | 0.007% |
| 101 | 8.201  | 8.182  | 8.222  | HH | 714        | 14098  | 0.33%  | 0.011% |
| 102 | 8.293  | 8.222  | 8.328  | HH | 1078       | 41825  | 0.98%  | 0.031% |
| 103 | 8.382  | 8.328  | 8.419  | HH | 1942       | 52019  | 1.22%  | 0.039% |
| 104 | 8.454  | 8.419  | 8.541  | HH | 48367      | 657234 | 15.47% | 0.491% |
| 105 | 8.551  | 8.541  | 8.618  | HH | 2072       | 67265  | 1.58%  | 0.050% |
| 106 | 8.632  | 8.618  | 8.684  | HH | 1245       | 43324  | 1.02%  | 0.032% |
| 107 | 8.708  | 8.684  | 8.721  | HH | 1115       | 23522  | 0.55%  | 0.018% |
| 108 | 8.752  | 8.721  | 8.798  | HH | 1422       | 51759  | 1.22%  | 0.039% |
| 109 | 8.817  | 8.798  | 8.835  | HH | 1800       | 32733  | 0.77%  | 0.024% |
| 110 | 8.848  | 8.835  | 8.868  | HH | 1693       | 28828  | 0.68%  | 0.022% |
| 111 | 8.917  | 8.868  | 8.964  | HH | 2132       | 87971  | 2.07%  | 0.066% |
| 112 | 8.972  | 8.964  | 9.021  | HH | 1206       | 37476  | 0.88%  | 0.028% |
| 113 | 9.031  | 9.021  | 9.075  | HH | 1243       | 37074  | 0.87%  | 0.028% |
| 114 | 9.084  | 9.075  | 9.101  | HH | 1172       | 17550  | 0.41%  | 0.013% |
| 115 | 9.122  | 9.101  | 9.183  | HH | 1858       | 75391  | 1.77%  | 0.056% |
| 116 | 9.207  | 9.183  | 9.266  | HH | 2946       | 84842  | 2.00%  | 0.063% |
| 117 | 9.294  | 9.266  | 9.321  | HH | 1588       | 46292  | 1.09%  | 0.035% |
| 118 | 9.391  | 9.321  | 9.415  | HH | 2658       | 92169  | 2.17%  | 0.069% |
| 119 | 9.424  | 9.415  | 9.459  | HH | 1511       | 35453  | 0.83%  | 0.026% |
| 120 | 9.498  | 9.459  | 9.555  | HH | 1706       | 86983  | 2.05%  | 0.065% |
| 121 | 9.582  | 9.555  | 9.594  | HH | 2343       | 43719  | 1.03%  | 0.033% |
| 122 | 9.606  | 9.594  | 9.636  | HH | 2424       | 54327  | 1.28%  | 0.041% |
| 123 | 9.652  | 9.636  | 9.661  | HH | 2086       | 31533  | 0.74%  | 0.024% |
| 124 | 9.671  | 9.661  | 9.699  | HH | 2148       | 45117  | 1.06%  | 0.034% |
| 125 | 9.716  | 9.699  | 9.754  | HH | 2214       | 66685  | 1.57%  | 0.050% |
| 126 | 9.766  | 9.754  | 9.801  | HH | 2203       | 54426  | 1.28%  | 0.041% |
| 127 | 9.826  | 9.801  | 9.868  | HH | 2323       | 76426  | 1.80%  | 0.057% |
| 128 | 9.907  | 9.868  | 9.921  | HH | 2361       | 63100  | 1.49%  | 0.047% |
| 129 | 9.941  | 9.921  | 9.971  | HH | 2560       | 70585  | 1.66%  | 0.053% |
| 130 | 9.988  | 9.971  | 10.038 | HH | 5931       | 124572 | 2.93%  | 0.093% |
| 131 | 10.055 | 10.038 | 10.085 | HH | 2508       | 65173  | 1.53%  | 0.049% |
| 132 | 10.097 | 10.085 | 10.147 | HH | 2352       | 82814  | 1.95%  | 0.062% |
| 133 | 10.162 | 10.147 | 10.183 | HH | 2346       | 47664  | 1.12%  | 0.036% |
| 134 | 10.206 | 10.183 | 10.216 | HH | 2189       | 41806  | 0.98%  | 0.031% |
| 135 | 10.232 | 10.216 | 10.247 | HH | 2196       | 40437  | 0.95%  | 0.030% |
| 136 | 10.264 | 10.247 | 10.294 | HH | 2337       | 61435  | 1.45%  | 0.046% |
| 137 | 10.333 | 10.294 | 10.348 | HH | 2915       | 80047  | 1.88%  | 0.060% |
| 138 | 10.379 | 10.348 | 10.392 | HH | 3827       | 81887  | 1.93%  | 0.061% |
| 139 | 10.408 | 10.392 | 10.445 | HH | 4599       | 108135 | 2.55%  | 0.081% |
| 140 | 10.468 | 10.445 | 10.498 | HH | 3226       | 93399  | 2.20%  | 0.070% |
| 141 | 10.521 | 10.498 | 10.575 | HH | 3387       | 135849 | 3.20%  | 0.102% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 142 | 10.588 | 10.575 | 10.598 | HH | 2879       | 39376   | 0.93%  | 0.029% |
| 143 | 10.621 | 10.598 | 10.632 | HH | 3267       | 60780   | 1.43%  | 0.045% |
| 144 | 10.655 | 10.632 | 10.678 | HH | 3908       | 95156   | 2.24%  | 0.071% |
| 145 | 10.702 | 10.678 | 10.712 | HH | 4429       | 78962   | 1.86%  | 0.059% |
| 146 | 10.727 | 10.712 | 10.765 | HH | 5707       | 136016  | 3.20%  | 0.102% |
| 147 | 10.798 | 10.765 | 10.821 | HH | 4724       | 134525  | 3.17%  | 0.101% |
| 148 | 10.841 | 10.821 | 10.899 | HH | 4371       | 175217  | 4.12%  | 0.131% |
| 149 | 10.964 | 10.899 | 10.995 | HH | 3850       | 201849  | 4.75%  | 0.151% |
| 150 | 11.017 | 10.995 | 11.104 | HH | 13589      | 449016  | 10.57% | 0.335% |
| 151 | 11.123 | 11.104 | 11.165 | HH | 4916       | 168546  | 3.97%  | 0.126% |
| 152 | 11.182 | 11.165 | 11.196 | HH | 4586       | 83125   | 1.96%  | 0.062% |
| 153 | 11.211 | 11.196 | 11.228 | HH | 4422       | 81909   | 1.93%  | 0.061% |
| 154 | 11.236 | 11.228 | 11.315 | HH | 4376       | 216819  | 5.10%  | 0.162% |
| 155 | 11.367 | 11.315 | 11.395 | HH | 5060       | 224949  | 5.30%  | 0.168% |
| 156 | 11.431 | 11.395 | 11.476 | HH | 6468       | 245896  | 5.79%  | 0.184% |
| 157 | 11.521 | 11.476 | 11.574 | HH | 5712       | 281938  | 6.64%  | 0.211% |
| 158 | 11.601 | 11.574 | 11.612 | HH | 4730       | 102970  | 2.42%  | 0.077% |
| 159 | 11.629 | 11.612 | 11.651 | HH | 5022       | 110726  | 2.61%  | 0.083% |
| 160 | 11.679 | 11.651 | 11.691 | HH | 4819       | 112053  | 2.64%  | 0.084% |
| 161 | 11.744 | 11.691 | 11.774 | HH | 5085       | 243928  | 5.74%  | 0.182% |
| 162 | 11.786 | 11.774 | 11.795 | HH | 4879       | 59840   | 1.41%  | 0.045% |
| 163 | 11.833 | 11.795 | 11.845 | HH | 6777       | 177566  | 4.18%  | 0.133% |
| 164 | 11.861 | 11.845 | 11.921 | HH | 8267       | 322638  | 7.59%  | 0.241% |
| 165 | 11.940 | 11.921 | 11.964 | HH | 7877       | 180556  | 4.25%  | 0.135% |
| 166 | 11.984 | 11.964 | 12.041 | HH | 6685       | 295543  | 6.96%  | 0.221% |
| 167 | 12.062 | 12.041 | 12.072 | HH | 6190       | 111410  | 2.62%  | 0.083% |
| 168 | 12.102 | 12.072 | 12.149 | HH | 7752       | 298518  | 7.03%  | 0.223% |
| 169 | 12.164 | 12.149 | 12.198 | HH | 6383       | 183775  | 4.33%  | 0.137% |
| 170 | 12.233 | 12.198 | 12.281 | HH | 8214       | 349060  | 8.22%  | 0.261% |
| 171 | 12.301 | 12.281 | 12.333 | HH | 6909       | 206359  | 4.86%  | 0.154% |
| 172 | 12.357 | 12.333 | 12.403 | HH | 6651       | 274036  | 6.45%  | 0.205% |
| 173 | 12.438 | 12.403 | 12.459 | HH | 6769       | 216008  | 5.08%  | 0.161% |
| 174 | 12.486 | 12.459 | 12.499 | HH | 6549       | 153670  | 3.62%  | 0.115% |
| 175 | 12.517 | 12.499 | 12.532 | HH | 6812       | 131208  | 3.09%  | 0.098% |
| 176 | 12.574 | 12.532 | 12.588 | HH | 6633       | 217954  | 5.13%  | 0.163% |
| 177 | 12.615 | 12.588 | 12.655 | HH | 6946       | 264538  | 6.23%  | 0.198% |
| 178 | 12.714 | 12.655 | 12.733 | HH | 8482       | 343837  | 8.09%  | 0.257% |
| 179 | 12.748 | 12.733 | 12.784 | HH | 8295       | 230448  | 5.42%  | 0.172% |
| 180 | 12.836 | 12.784 | 12.931 | HH | 57316      | 1298109 | 30.56% | 0.970% |
| 181 | 12.940 | 12.931 | 12.978 | HH | 7360       | 201885  | 4.75%  | 0.151% |
| 182 | 12.997 | 12.978 | 13.015 | HH | 7428       | 161054  | 3.79%  | 0.120% |
| 183 | 13.034 | 13.015 | 13.093 | HH | 8363       | 356520  | 8.39%  | 0.266% |
| 184 | 13.137 | 13.093 | 13.184 | HH | 45382      | 927706  | 21.84% | 0.693% |
| 185 | 13.201 | 13.184 | 13.223 | HH | 11459      | 238503  | 5.61%  | 0.178% |
| 186 | 13.239 | 13.223 | 13.258 | HH | 10801      | 210306  | 4.95%  | 0.157% |
| 187 | 13.271 | 13.258 | 13.316 | HH | 9995       | 306092  | 7.21%  | 0.229% |
| 188 | 13.330 | 13.316 | 13.348 | HH | 8651       | 163228  | 3.84%  | 0.122% |
| 189 | 13.358 | 13.348 | 13.395 | HH | 8682       | 236131  | 5.56%  | 0.176% |
| 190 | 13.432 | 13.395 | 13.503 | HH | 9256       | 551869  | 12.99% | 0.412% |
| 191 | 13.529 | 13.503 | 13.548 | HH | 8222       | 214571  | 5.05%  | 0.160% |
| 192 | 13.609 | 13.548 | 13.694 | HH | 9695       | 729182  | 17.16% | 0.545% |
| 193 | 13.745 | 13.694 | 13.785 | HH | 12378      | 515331  | 12.13% | 0.385% |
| 194 | 13.804 | 13.785 | 13.825 | HH | 8834       | 202937  | 4.78%  | 0.152% |

|            |        |        |        |    |        |         |         |        |
|------------|--------|--------|--------|----|--------|---------|---------|--------|
| rteres.txt |        |        |        |    |        |         |         |        |
| 195        | 13.852 | 13.825 | 13.874 | HH | 9656   | 256357  | 6.03%   | 0.192% |
| 196        | 13.892 | 13.874 | 13.906 | HH | 10239  | 183340  | 4.32%   | 0.137% |
| 197        | 13.915 | 13.906 | 13.935 | HH | 9848   | 162381  | 3.82%   | 0.121% |
| 198        | 13.943 | 13.935 | 13.975 | HH | 8786   | 202046  | 4.76%   | 0.151% |
| 199        | 14.016 | 13.975 | 14.046 | HH | 9954   | 379661  | 8.94%   | 0.284% |
| 200        | 14.064 | 14.046 | 14.111 | HH | 9125   | 328999  | 7.74%   | 0.246% |
| 201        | 14.122 | 14.111 | 14.137 | HH | 8080   | 123807  | 2.91%   | 0.093% |
| 202        | 14.155 | 14.137 | 14.166 | HH | 8669   | 147546  | 3.47%   | 0.110% |
| 203        | 14.178 | 14.166 | 14.204 | HH | 8656   | 191345  | 4.50%   | 0.143% |
| 204        | 14.244 | 14.204 | 14.260 | HH | 8383   | 269178  | 6.34%   | 0.201% |
| 205        | 14.273 | 14.260 | 14.292 | HH | 8171   | 155187  | 3.65%   | 0.116% |
| 206        | 14.314 | 14.292 | 14.392 | HH | 10604  | 528471  | 12.44%  | 0.395% |
| 207        | 14.416 | 14.392 | 14.426 | HH | 9140   | 175609  | 4.13%   | 0.131% |
| 208        | 14.449 | 14.426 | 14.488 | HH | 9786   | 346487  | 8.16%   | 0.259% |
| 209        | 14.509 | 14.488 | 14.537 | HH | 12328  | 308107  | 7.25%   | 0.230% |
| 210        | 14.549 | 14.537 | 14.568 | HH | 9875   | 180595  | 4.25%   | 0.135% |
| 211        | 14.591 | 14.568 | 14.633 | HH | 11326  | 387574  | 9.12%   | 0.290% |
| 212        | 14.666 | 14.633 | 14.694 | HH | 12945  | 400962  | 9.44%   | 0.300% |
| 213        | 14.720 | 14.694 | 14.742 | HH | 12810  | 324705  | 7.64%   | 0.243% |
| 214        | 14.753 | 14.742 | 14.765 | HH | 10706  | 139929  | 3.29%   | 0.105% |
| 215        | 14.781 | 14.765 | 14.802 | HH | 11151  | 228191  | 5.37%   | 0.170% |
| 216        | 14.852 | 14.802 | 14.983 | HH | 284869 | 4248262 | 100.00% | 3.174% |
| 217        | 15.032 | 14.983 | 15.049 | HH | 24401  | 534739  | 12.59%  | 0.400% |
| 218        | 15.071 | 15.049 | 15.171 | HH | 34648  | 1145937 | 26.97%  | 0.856% |
| 219        | 15.198 | 15.171 | 15.233 | HH | 11832  | 378761  | 8.92%   | 0.283% |
| 220        | 15.256 | 15.233 | 15.304 | HH | 10514  | 408092  | 9.61%   | 0.305% |
| 221        | 15.362 | 15.304 | 15.374 | HH | 11156  | 413717  | 9.74%   | 0.309% |
| 222        | 15.390 | 15.374 | 15.409 | HH | 12258  | 234286  | 5.51%   | 0.175% |
| 223        | 15.435 | 15.409 | 15.556 | HH | 40083  | 1547792 | 36.43%  | 1.156% |
| 224        | 15.574 | 15.556 | 15.584 | HH | 14979  | 237292  | 5.59%   | 0.177% |
| 225        | 15.597 | 15.584 | 15.642 | HH | 15687  | 471769  | 11.10%  | 0.352% |
| 226        | 15.658 | 15.642 | 15.690 | HH | 13619  | 358278  | 8.43%   | 0.268% |
| 227        | 15.717 | 15.690 | 15.744 | HH | 14581  | 431929  | 10.17%  | 0.323% |
| 228        | 15.753 | 15.744 | 15.791 | HH | 13883  | 343795  | 8.09%   | 0.257% |
| 229        | 15.810 | 15.791 | 15.838 | HH | 11106  | 303520  | 7.14%   | 0.227% |
| 230        | 15.859 | 15.838 | 15.931 | HH | 12519  | 624555  | 14.70%  | 0.467% |
| 231        | 15.947 | 15.931 | 15.985 | HH | 10543  | 319474  | 7.52%   | 0.239% |
| 232        | 15.996 | 15.985 | 16.021 | HH | 10245  | 210531  | 4.96%   | 0.157% |
| 233        | 16.040 | 16.021 | 16.053 | HH | 10151  | 194967  | 4.59%   | 0.146% |
| 234        | 16.076 | 16.053 | 16.112 | HH | 13909  | 384504  | 9.05%   | 0.287% |
| 235        | 16.142 | 16.112 | 16.194 | HH | 11417  | 494237  | 11.63%  | 0.369% |
| 236        | 16.214 | 16.194 | 16.251 | HH | 10446  | 330617  | 7.78%   | 0.247% |
| 237        | 16.299 | 16.251 | 16.338 | HH | 10191  | 504778  | 11.88%  | 0.377% |
| 238        | 16.404 | 16.338 | 16.444 | HH | 11495  | 657818  | 15.48%  | 0.492% |
| 239        | 16.457 | 16.444 | 16.467 | HH | 10200  | 140885  | 3.32%   | 0.105% |
| 240        | 16.494 | 16.467 | 16.507 | HH | 11337  | 262666  | 6.18%   | 0.196% |
| 241        | 16.524 | 16.507 | 16.538 | HH | 12016  | 210404  | 4.95%   | 0.157% |
| 242        | 16.561 | 16.538 | 16.577 | HH | 19576  | 356320  | 8.39%   | 0.266% |
| 243        | 16.600 | 16.577 | 16.621 | HH | 46150  | 764676  | 18.00%  | 0.571% |
| 244        | 16.632 | 16.621 | 16.684 | HH | 24035  | 626105  | 14.74%  | 0.468% |
| 245        | 16.707 | 16.684 | 16.728 | HH | 15224  | 363460  | 8.56%   | 0.272% |
| 246        | 16.741 | 16.728 | 16.790 | HH | 14061  | 463522  | 10.91%  | 0.346% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 247 | 16.799 | 16.790 | 16.831 | HH | 11608      | 278218  | 6.55%  | 0.208% |
| 248 | 16.865 | 16.831 | 16.877 | HH | 12004      | 321917  | 7.58%  | 0.241% |
| 249 | 16.926 | 16.877 | 16.967 | HH | 32215      | 891447  | 20.98% | 0.666% |
| 250 | 16.992 | 16.967 | 17.012 | HH | 29729      | 557761  | 13.13% | 0.417% |
| 251 | 17.028 | 17.012 | 17.053 | HH | 27720      | 481358  | 11.33% | 0.360% |
| 252 | 17.079 | 17.053 | 17.191 | HH | 31039      | 1268149 | 29.85% | 0.948% |
| 253 | 17.238 | 17.191 | 17.278 | HH | 12891      | 636362  | 14.98% | 0.475% |
| 254 | 17.291 | 17.278 | 17.327 | HH | 12497      | 353007  | 8.31%  | 0.264% |
| 255 | 17.359 | 17.327 | 17.371 | HH | 13130      | 322339  | 7.59%  | 0.241% |
| 256 | 17.386 | 17.371 | 17.424 | HH | 13718      | 406817  | 9.58%  | 0.304% |
| 257 | 17.434 | 17.424 | 17.447 | HH | 11895      | 159980  | 3.77%  | 0.120% |
| 258 | 17.480 | 17.447 | 17.511 | HH | 33107      | 733140  | 17.26% | 0.548% |
| 259 | 17.525 | 17.511 | 17.551 | HH | 13120      | 298231  | 7.02%  | 0.223% |
| 260 | 17.572 | 17.551 | 17.591 | HH | 13583      | 315054  | 7.42%  | 0.235% |
| 261 | 17.611 | 17.591 | 17.641 | HH | 13133      | 374852  | 8.82%  | 0.280% |
| 262 | 17.663 | 17.641 | 17.691 | HH | 13132      | 377242  | 8.88%  | 0.282% |
| 263 | 17.703 | 17.691 | 17.745 | HH | 12470      | 378974  | 8.92%  | 0.283% |
| 264 | 17.765 | 17.745 | 17.780 | HH | 12302      | 255839  | 6.02%  | 0.191% |
| 265 | 17.800 | 17.780 | 17.821 | HH | 12288      | 290759  | 6.84%  | 0.217% |
| 266 | 17.837 | 17.821 | 17.851 | HH | 12068      | 215574  | 5.07%  | 0.161% |
| 267 | 17.878 | 17.851 | 17.893 | HH | 13441      | 324066  | 7.63%  | 0.242% |
| 268 | 17.918 | 17.893 | 17.947 | HH | 32860      | 621597  | 14.63% | 0.464% |
| 269 | 17.973 | 17.947 | 17.987 | HH | 12765      | 303760  | 7.15%  | 0.227% |
| 270 | 18.011 | 17.987 | 18.045 | HH | 19077      | 508030  | 11.96% | 0.380% |
| 271 | 18.085 | 18.045 | 18.126 | HH | 15007      | 658898  | 15.51% | 0.492% |
| 272 | 18.143 | 18.126 | 18.150 | HH | 13954      | 199528  | 4.70%  | 0.149% |
| 273 | 18.190 | 18.150 | 18.225 | HH | 15616      | 649541  | 15.29% | 0.485% |
| 274 | 18.283 | 18.225 | 18.319 | HH | 25587      | 980064  | 23.07% | 0.732% |
| 275 | 18.343 | 18.319 | 18.361 | HH | 37628      | 681131  | 16.03% | 0.509% |
| 276 | 18.378 | 18.361 | 18.406 | HH | 31679      | 677032  | 15.94% | 0.506% |
| 277 | 18.417 | 18.406 | 18.435 | HH | 20304      | 330665  | 7.78%  | 0.247% |
| 278 | 18.449 | 18.435 | 18.498 | HH | 19364      | 667794  | 15.72% | 0.499% |
| 279 | 18.517 | 18.498 | 18.529 | HH | 17589      | 305712  | 7.20%  | 0.228% |
| 280 | 18.545 | 18.529 | 18.583 | HH | 18453      | 553104  | 13.02% | 0.413% |
| 281 | 18.632 | 18.583 | 18.695 | HH | 31230      | 1348922 | 31.75% | 1.008% |
| 282 | 18.752 | 18.695 | 18.799 | HH | 30030      | 1183326 | 27.85% | 0.884% |
| 283 | 18.807 | 18.799 | 18.829 | HH | 16943      | 300116  | 7.06%  | 0.224% |
| 284 | 18.856 | 18.829 | 18.905 | HH | 21016      | 775292  | 18.25% | 0.579% |
| 285 | 18.926 | 18.905 | 18.948 | HH | 17093      | 409125  | 9.63%  | 0.306% |
| 286 | 18.959 | 18.948 | 18.992 | HH | 15486      | 399584  | 9.41%  | 0.299% |
| 287 | 19.012 | 18.992 | 19.025 | HH | 15039      | 288780  | 6.80%  | 0.216% |
| 288 | 19.052 | 19.025 | 19.071 | HH | 15968      | 427598  | 10.07% | 0.319% |
| 289 | 19.153 | 19.071 | 19.227 | HH | 24668      | 1708341 | 40.21% | 1.276% |
| 290 | 19.259 | 19.227 | 19.286 | HH | 19725      | 658010  | 15.49% | 0.492% |
| 291 | 19.308 | 19.286 | 19.330 | HH | 21066      | 526509  | 12.39% | 0.393% |
| 292 | 19.344 | 19.330 | 19.374 | HH | 20450      | 508453  | 11.97% | 0.380% |
| 293 | 19.408 | 19.374 | 19.458 | HH | 19147      | 916723  | 21.58% | 0.685% |
| 294 | 19.472 | 19.458 | 19.495 | HH | 18797      | 398858  | 9.39%  | 0.298% |
| 295 | 19.538 | 19.495 | 19.571 | HH | 23099      | 871535  | 20.52% | 0.651% |
| 296 | 19.626 | 19.571 | 19.640 | HH | 21545      | 770470  | 18.14% | 0.576% |
| 297 | 19.650 | 19.640 | 19.697 | HH | 20385      | 643193  | 15.14% | 0.481% |
| 298 | 19.740 | 19.697 | 19.764 | HH | 20852      | 753300  | 17.73% | 0.563% |
| 299 | 19.806 | 19.764 | 19.851 | HH | 24141      | 1090394 | 25.67% | 0.815% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 300 | 19.875 | 19.851 | 19.894 | HH | 23432      | 562526  | 13.24% | 0.420% |
| 301 | 19.916 | 19.894 | 19.961 | HH | 26606      | 908086  | 21.38% | 0.678% |
| 302 | 19.974 | 19.961 | 19.994 | HH | 20420      | 406686  | 9.57%  | 0.304% |
| 303 | 20.015 | 19.994 | 20.056 | HH | 20913      | 728132  | 17.14% | 0.544% |
| 304 | 20.100 | 20.056 | 20.122 | HH | 21667      | 789935  | 18.59% | 0.590% |
| 305 | 20.150 | 20.122 | 20.167 | HH | 21158      | 550988  | 12.97% | 0.412% |
| 306 | 20.192 | 20.167 | 20.238 | HH | 28102      | 1016067 | 23.92% | 0.759% |
| 307 | 20.279 | 20.238 | 20.301 | HH | 25271      | 843924  | 19.87% | 0.631% |
| 308 | 20.325 | 20.301 | 20.359 | HH | 23005      | 782251  | 18.41% | 0.584% |
| 309 | 20.372 | 20.359 | 20.388 | HH | 21849      | 373153  | 8.78%  | 0.279% |
| 310 | 20.397 | 20.388 | 20.431 | HH | 21692      | 552763  | 13.01% | 0.413% |
| 311 | 20.456 | 20.431 | 20.490 | HH | 21599      | 746235  | 17.57% | 0.558% |
| 312 | 20.541 | 20.490 | 20.581 | HH | 22826      | 1163287 | 27.38% | 0.869% |
| 313 | 20.613 | 20.581 | 20.630 | HH | 23250      | 645132  | 15.19% | 0.482% |
| 314 | 20.647 | 20.630 | 20.736 | HH | 23437      | 1372063 | 32.30% | 1.025% |
| 315 | 20.764 | 20.736 | 20.788 | HH | 21547      | 668580  | 15.74% | 0.500% |
| 316 | 20.820 | 20.788 | 20.868 | HH | 22090      | 1021163 | 24.04% | 0.763% |
| 317 | 20.906 | 20.868 | 20.953 | HH | 21088      | 1067748 | 25.13% | 0.798% |
| 318 | 20.967 | 20.953 | 21.014 | HH | 20953      | 755915  | 17.79% | 0.565% |
| 319 | 21.051 | 21.014 | 21.098 | HH | 23233      | 1082365 | 25.48% | 0.809% |
| 320 | 21.117 | 21.098 | 21.148 | HH | 20360      | 609399  | 14.34% | 0.455% |
| 321 | 21.189 | 21.148 | 21.251 | HH | 20786      | 1263380 | 29.74% | 0.944% |
| 322 | 21.305 | 21.251 | 21.358 | HH | 21326      | 1333070 | 31.38% | 0.996% |
| 323 | 21.391 | 21.358 | 21.464 | HH | 22176      | 1334293 | 31.41% | 0.997% |
| 324 | 21.504 | 21.464 | 21.578 | HH | 22615      | 1434080 | 33.76% | 1.072% |
| 325 | 21.622 | 21.578 | 21.662 | HH | 20781      | 1029744 | 24.24% | 0.769% |
| 326 | 21.730 | 21.662 | 21.740 | HH | 22186      | 1012084 | 23.82% | 0.756% |
| 327 | 21.755 | 21.740 | 21.798 | HH | 22388      | 741662  | 17.46% | 0.554% |
| 328 | 21.811 | 21.798 | 21.884 | HH | 20759      | 1052356 | 24.77% | 0.786% |
| 329 | 21.911 | 21.884 | 21.943 | HH | 20361      | 724053  | 17.04% | 0.541% |
| 330 | 21.976 | 21.943 | 21.988 | HH | 20396      | 542533  | 12.77% | 0.405% |
| 331 | 22.016 | 21.988 | 22.038 | HH | 21694      | 634815  | 14.94% | 0.474% |
| 332 | 22.063 | 22.038 | 22.111 | HH | 21454      | 911328  | 21.45% | 0.681% |
| 333 | 22.139 | 22.111 | 22.234 | HH | 21091      | 1503393 | 35.39% | 1.123% |
| 334 | 22.246 | 22.234 | 22.259 | HH | 20092      | 297643  | 7.01%  | 0.222% |
| 335 | 22.268 | 22.259 | 22.288 | HH | 20024      | 349576  | 8.23%  | 0.261% |
| 336 | 22.299 | 22.288 | 22.417 | HH | 20027      | 1524065 | 35.88% | 1.139% |
| 337 | 22.429 | 22.417 | 22.553 | HH | 19371      | 1563054 | 36.79% | 1.168% |
| 338 | 22.602 | 22.553 | 22.649 | HH | 20925      | 1150303 | 27.08% | 0.859% |
| 339 | 22.667 | 22.649 | 22.749 | HH | 19401      | 1151892 | 27.11% | 0.861% |
| 340 | 22.809 | 22.749 | 22.818 | HH | 19290      | 785604  | 18.49% | 0.587% |
| 341 | 22.865 | 22.818 | 22.898 | HH | 19598      | 928527  | 21.86% | 0.694% |
| 342 | 22.935 | 22.898 | 23.026 | HH | 19871      | 1477837 | 34.79% | 1.104% |
| 343 | 23.037 | 23.026 | 23.077 | HH | 18895      | 572531  | 13.48% | 0.428% |
| 344 | 23.088 | 23.077 | 23.102 | HH | 18789      | 278165  | 6.55%  | 0.208% |
| 345 | 23.117 | 23.102 | 23.141 | HH | 18717      | 445174  | 10.48% | 0.333% |
| 346 | 23.166 | 23.141 | 23.205 | HH | 18688      | 707903  | 16.66% | 0.529% |
| 347 | 23.213 | 23.205 | 23.217 | HH | 18738      | 135611  | 3.19%  | 0.101% |
| 348 | 23.276 | 23.217 | 23.345 | HH | 20123      | 1474123 | 34.70% | 1.101% |
| 349 | 23.359 | 23.345 | 23.378 | HH | 18714      | 373280  | 8.79%  | 0.279% |
| 350 | 23.407 | 23.378 | 23.447 | HH | 18865      | 775014  | 18.24% | 0.579% |
| 351 | 23.489 | 23.447 | 23.597 | HH | 19037      | 1686190 | 39.69% | 1.260% |

|     |        |        |        |     |                                   |         |        |        |
|-----|--------|--------|--------|-----|-----------------------------------|---------|--------|--------|
|     |        |        |        |     | rteres.txt                        |         |        |        |
| 352 | 23.610 | 23.597 | 23.620 | HH  | 18417                             | 253263  | 5.96%  | 0.189% |
| 353 | 23.648 | 23.620 | 23.660 | HH  | 18468                             | 448097  | 10.55% | 0.335% |
| 354 | 23.679 | 23.660 | 23.702 | HH  | 18534                             | 457928  | 10.78% | 0.342% |
| 355 | 23.757 | 23.702 | 23.771 | HH  | 18590                             | 771601  | 18.16% | 0.577% |
| 356 | 23.839 | 23.771 | 23.908 | HH  | 18821                             | 1530383 | 36.02% | 1.143% |
| 357 | 23.914 | 23.908 | 23.928 | HH  | 18535                             | 221548  | 5.22%  | 0.166% |
| 358 | 23.947 | 23.928 | 23.965 | HH  | 18526                             | 406038  | 9.56%  | 0.303% |
| 359 | 23.991 | 23.965 | 24.008 | HH  | 18623                             | 481482  | 11.33% | 0.360% |
| 360 | 24.058 | 24.008 | 24.135 | HH  | 19650                             | 1437321 | 33.83% | 1.074% |
| 361 | 24.157 | 24.135 | 24.211 | HH  | 18357                             | 836315  | 19.69% | 0.625% |
| 362 | 24.220 | 24.211 | 24.319 | HH  | 18296                             | 1170408 | 27.55% | 0.874% |
| 363 | 24.330 | 24.319 | 24.345 | HH  | 17945                             | 273489  | 6.44%  | 0.204% |
| 364 | 24.356 | 24.345 | 24.371 | HH  | 17931                             | 285832  | 6.73%  | 0.214% |
| 365 | 24.387 | 24.371 | 24.418 | HH  | 17978                             | 503181  | 11.84% | 0.376% |
| 366 | 24.457 | 24.418 | 24.475 | HH  | 18104                             | 606758  | 14.28% | 0.453% |
| 367 | 24.512 | 24.475 | 24.614 | HH  | 18167                             | 1507424 | 35.48% | 1.126% |
| 368 | 24.724 | 24.614 | 24.777 | HH  | 18296                             | 1767349 | 41.60% | 1.321% |
| 369 | 24.808 | 24.777 | 24.831 | HH  | 18125                             | 585238  | 13.78% | 0.437% |
| 370 | 24.842 | 24.831 | 24.848 | HH  | 18181                             | 186689  | 4.39%  | 0.139% |
| 371 | 24.871 | 24.848 | 24.881 | HH  | 18172                             | 349690  | 8.23%  | 0.261% |
| 372 | 24.956 | 24.881 | 25.027 | HH  | 18912                             | 1621596 | 38.17% | 1.212% |
| 373 | 25.039 | 25.027 | 25.081 | HHA | 17966                             | 595088  | 14.01% | 0.445% |
|     |        |        |        |     | Sum of corrected areas: 133837455 |         |        |        |

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